

## OPERATOR'S MANUAL

# DieHard<sup>®</sup>

### Jump Starter/DC Power Source

Model No.  
200.71990



#### **CAUTION:**

Read all Safety Rules and Operating Instructions,  
and follow them with each use of this product.

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Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

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### DieHard One-Year Full Warranty

When operated and maintained according to all supplied instructions, if this DieHard product fails due to a defect in material or workmanship within one year from the date of purchase, return it to any Sears store or other DieHard outlet in the United States for free replacement.

This warranty does not include fuses, which are expendable parts.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Hoffman Estates, IL 60179

FOR CUSTOMER ASSISTANCE OR REPLACEMENT PARTS,  
CALL TOLL-FREE FROM 7 AM TO 4:30 PM CT  
MONDAY THROUGH FRIDAY: 1-800-SEARS-64 (1-800-732-7764)



**CONTAINS SEALED NON-SPILLABLE LEAD-ACID BATTERY. MUST BE DISPOSED OF PROPERLY.**

**WARNING:** Possible explosion hazard. Contact with battery acid may cause severe burns and blindness. Keep out of reach of children.

# IMPORTANT: CHARGE IMMEDIATELY AFTER PURCHASE

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## IMPORTANT: READ AND SAVE THIS SAFETY AND INSTRUCTION MANUAL.

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### 1. IMPORTANT SAFETY INSTRUCTIONS

- 1.1 Charge the internal battery immediately upon purchase, every 30 days and after every use.
- 1.2 Use in a well ventilated space.
- 1.3 Contains a sealed, non-spillable lead-acid battery. Must be disposed of properly.
- 1.4 Someone should be within range of your voice or close enough to come to your aid when you are working near a lead-acid battery.
- 1.5 Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes. If acid enters the eye area, rinse with cold water for at least 10 minutes and get medical help immediately.
- 1.6 Do not smoke, or use matches or cigarette lighters, or allow any spark or flame near the battery or engine.
- 1.7 Never operate the power source unit if it has damaged lead wire or clamps. Have the lead wire replaced by a qualified technician.
- 1.8 Wear complete eye and clothing protection when working with lead-acid batteries.
- 1.9 Do not permit internal battery in the jump starter to freeze. Never charge a frozen battery.
- 1.10 **WARNING:** Possible explosion hazard. Contact with battery acid may cause severe burns and blindness. Keep out of reach of children.
- 1.11 **WARNING:** Pursuant to California Proposition 65, this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
- 1.12 **WARNING:** Failure to follow instructions may cause damage or an explosion. Read entire instruction manual before use. Always shield eyes during use and wear safety glasses.

## 2. OPERATING INSTRUCTIONS

Warning: Failure to follow instructions may cause damage or an explosion. Read entire instruction manual before use.

- 2.1 Turn ignition OFF before making cable connections.
- 2.2 Use in a well-ventilated area.
- 2.3 Keep clear of fan blades, belts, pulleys and other parts that may cause injury.
- 2.4 Make sure the rotary power switch on the front panel is in the O (OFF) position until clamps are connected to the vehicle battery. If plugged into a 110V AC wall outlet, disconnect.
- 2.5 To prevent sparking, NEVER allow clamps to touch together or to contact the same piece of metal.
- 2.6 Clamp the red clamp (+) to the positive terminal of the battery. (For a negative grounded system.)\*
- 2.7 Clamp the black clamp (-) to an unpainted and unmoving part of the chassis or engine block. The 3-digit display will show the voltage of the battery. Do not connect clip to carburetor, fuel lines, or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
- 2.8 If you have connected the clamps backwards, an audio alarm will sound. DO NOT turn your jump starter on. This could cause serious damage. Reverse the connections, and the audio alarm will stop.
- 2.9 If no audio alarm sounds, turn the rotary switch to the 12V position. The clamps are now powered. Crank the engine. If the engine does not start within 5 – 8 seconds, stop cranking and wait at least 1 minute before attempting to start vehicle again. (This permits the battery to cool down.)
- 2.10 After the engine starts, turn the rotary switch to the O (OFF) position. Then disconnect the black clamp (-) and then the red clamp (+) in that order. Store the clamps in the compartments located on the sides of the case.
- 2.11 Recharge the jump starter as soon as possible after use.

**NOTE:** In the rare case of jump-starting a vehicle that has a positive-grounded vehicle electrical system, connect the **NEGATIVE** black clamp (-) to the negative terminal (-) of the vehicle battery. Then connect the **POSITIVE** red clamp (+) to an unpainted and unmoving part of the vehicle chassis or engine block. If you are unsure of the nature of the vehicle's electrical grounding system, check the owner's manual of the vehicle. To disconnect clamps, reverse order.

### 3. DIGITAL DISPLAY

The display can be used to indicate a battery's voltage when connected to a battery or the percentage of charge in the jump starter's internal battery.

With the switch in the OFF position, connect the clamps to the vehicle's battery and its voltage is displayed. Turn the jump starter's rotary switch to 12V and the combination of both internal and external batteries are shown.

To read the internal battery's charge status: Press the display button to read the percentage of charge left in the internal battery. A fully charged battery will read 100%.

### 4. CHARGING OF INTERNAL BATTERY WITH BUILT-IN 3-AMP, AUTOMATIC CHARGER.

After removing the jump starter from the carton, charge it for a minimum of 8 hours before using.

- 4.1 Make sure the rotary power switch on the front panel is in the O (OFF) position.
- 4.2 Plug extension cord into charger plug on the left side of the jump starter. (Extension cord not included; must be purchased separately.)
- 4.3 Plug the extension cord into 110V AC electrical wall outlet.
- 4.4 Charging of the internal battery could take up to 48 hours due to age and condition of the battery. At full charge, the charger will automatically drop into a float mode and maintain the battery at full charge without damaging the battery. The jump starter can be left plugged into the 110V wall outlet indefinitely to maintain full power.

**NOTE:** A fully charged battery will read 100%

- 4.5 Recharge the jump starter after every use and every month (30 days) to extend the battery's life.

If the charger is plugged in for over 48 hours and the battery(s) do not fully charge in this time, CHG ERR is shown on the Display. The batteries may be getting old and will no longer accept a charge.

## 5. TO ORDER AND REPLACE JAWS

Part Number	Description	QTY Per Clamp
2299001580	Kit, Battery Clamp Rebuild	1

### 5.1 Battery Clamp Jaw Replacement

- Secure clamp in open position using a vise or equivalent clamping device. **IMPORTANT:** Make sure the rotary switch on the front panel is in the O (OFF) position and the jump starter is not plugged into a 110V AC electrical wall outlet.
- Unscrew fastener securing the cables to the rear of the top jaw.
- Unscrew fasteners (2) securing the Copper Jaws to the plastic clamp. Remove the jaws and braided cable.
- Reverse for assembly.

## 6. STORAGE AND MAINTENANCE

### **IMPORTANT:**

- **CHARGE IMMEDIATELY AFTER PURCHASE**
- **KEEP FULLY CHARGED.**

Charge the internal battery immediately upon purchase, every 30 days and after every use.

All batteries are affected by temperature. The ideal storage temperature is at 70 degrees Fahrenheit. The internal battery will gradually self-discharge (lose power) over time, especially in warm environments. Leaving the battery in a discharged state may result in permanent battery damage. To ensure satisfactory performance and avoid permanent damage, charge the internal battery every month.

When the jump starter is ON, the clamps are live and will produce arcing or sparking if they come in contact with each other. To prevent accidental arcing, always keep the clamps on the storage holders and the JUMP START ON/OFF switch in the OFF position when not using it to jump start a vehicle.



